

**Notice of Allowability**

Application No.

09/820,704

Applicant(s)

HAYASHI, SHIGEYUKI

Examiner

Huan H. Tran

Art Unit

2861

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE request and IDS filed on 03/09/04.
2. ☒ The allowed claim(s) is/are 15, 17, 19, 20, 23, 25, 27, 58, 60, 62, 71, 73, 75, 80, 81, 83, 85, 111-119 and 127-132.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 10/24/03 11/18/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
Huan Tran  
Primary Examiner  
AU 2861

## DETAILED ACTION

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 03/09/04 has been entered.

### ***Priority***

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### ***Allowable Subject Matter***

3. Claims 15, 17, 19, 20, 23, 25, 27, 58, 60, 62, 71, 73, 75, 80, 81, 83, 85, 111-119, 127-132 are allowed.

4. The following is an examiner's statement of reasons for allowance: Claim 15 and dependent claims thereof are allowable because of the inclusion of the limitation "one of the four spools has an engagement pawl, and one of the supply-side core tube and the takeup-side core tube is provided with an engagement member for engaging the engagement pawl, wherein the one of the supply-side core tube and the takeup-side core tube has an inner peripheral surface, and the engagement member has a projection inwardly protruding from the inner peripheral surface. ". The limitation is shown in Figs. 16-18 with the engagement member being 66 protruding from the inner peripheral surface of one of the supply-side core tube and takeup-side core tube.

Claim 23 and dependent claims thereof are allowable for the inclusion of the limitation "one of the supply-side core tube and the takeup-side core tube is provided with an engagement member for engaging the engagement pawl, wherein the one of the supply- side core tube and the takeup-side core tube has an inner peripheral surface, and the engagement member has a projection inwardly protruding from the inner peripheral surface"

Claim 58 and dependent claim thereof are allowable for the inclusion of the limitation "a cylindrical body having two ends opposite from each other, one of the two ends detachably engageable with the one of the four spools, wherein the cylindrical body includes an engagement member for engaging the engagement pawl, the cylindrical body has an inner peripheral surface, and the engagement member has a projection inwardly protruding from the inner peripheral surface"

Claim 71 and dependent claims thereof are allowable for the inclusion of the limitation "a cylindrical body having two ends detachably engageable with a specific spool having an engagement pawl, wherein the cylindrical body includes an engagement member for engaging the engagement pawl, the cylindrical body has an inner peripheral surface, and the engagement member has a projection inwardly protruding from the inner peripheral surface"

Claim 80 is allowable for the inclusion of the limitation "a tube-like takeup-side member having two ends opposite from each other, a shaft being provided at one end and a protrusion extending from an inner surface near the other end; a specific spool detachably engageable to the other end of the tube-like takeup-side member, the specific spool having a shaft and an engageable pawl opposite to the shaft, the enagageable pawl being engageable with the protrusion of the tube-like takeup-side member"

Claim 81 and dependent claims thereof are allowable for the inclusion of the limitation "wherein one of the supply-side core tube and takeup-side core tube includes an engagement

Art Unit: 2861

member for engaging the engagement pawl of the specific spool, one of the supply-side core tube and takeup-side core tube has an inner peripheral surface, and the engagement member has a projection inwardly protruding from the inner peripheral surface”

Claim 111 and dependent claims thereof are allowable for the reason that prior art do not teach or suggest the claimed ink sheet set.

Claim 117 and dependent claims thereof are allowable for the inclusion of the limitation “a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up tube; and an ink sheet attached at one end to the supply tube and attached at a second end to the take-up tube, wherein the engaging mechanism is at least one protrusion into the core of the tube”. See the protrusion 66 shown in Fig. 18.

Claim 127 and dependent claims thereof are allowable for the inclusion of the limitation “a take-up core tube having a first end with at least one notch in the first end and a second end having an inner surface defining at least one protrusion extending inwardly”

Claim 130 is allowable for the inclusion of the limitation “a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up tube; and an ink sheet attached at one end to the supply tube and attached at a second end to the take-up tube, wherein the engaging mechanism is a camming mechanism having an engagement face and a cam face”

Claim 131 is allowable for the inclusion of the limitation “a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up tube; and an ink sheet attached at one end to the supply tube and attached at a second end to the take-up tube, wherein the engaging mechanism is a plurality of notches in the end of the take-up core tube, at least one notch having an L-shape” See Fig. 12.

Art Unit: 2861

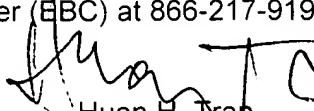
Claim 132 is allowable for the inclusion of the limitation "a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up tube; and an in sheet attached at one end to the supply tube and attached at a second end to the take-up tube, wherein the engaging mechanism is an inner surface of the core tube with an appropriate coefficient of friction"

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan H. Tran whose telephone number is (571) 272-2261. The examiner can normally be reached on at work on W-F from 6:30 to 5; T are telework days.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Huan H. Tran  
Primary Examiner  
Art Unit 2861

Application/Control Number: 09/820,704

Page 6

Art Unit: 2861

hht

03/01/06